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WSTIAC SOAR-02-01 ANTIJAM GPS

Proliferating utilization of GPS in U.S. weapon systems, concerns have risen over our With the growing dependence on GPS for precision guidance, Weapon Systems designers are increasingly concerned over the potential vulnerability of GPS receivers to jamming. This state-of-the-art report describes Global Positioning System (GPS) fundamentals for weapon guidance and derives ranges of influence of near-term jamming threats against GPS receivers with various levels of anti-jam protection.



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WSTIAC Leveraging Comanche technology base to joint aviation programs



The U.S. Army announced the termination of the Comanche Helicopter program. To date, the Army has spent \$6.9 billion on the Comanche since it began development in 1983. One of the issues facing the Program Manager is how to leverage the technology base and knowledge gained through the Comanche program to joint aviation programs.

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WSTIAC Leveraging Comanche technology base to joint aviation programs (continued)

WSTIAC will assist with the identification and evaluation of Comanche technical data accumulated over twenty years on the RAH-66 Comanche; and devise a plan of action to capture the data and render it accessible to authorized users.

Not all of the approximately \$6.9 billion invested in the 20-year-old Comanche program will be a loss. Technologies learned during the development of the helicopter will be added to the Army's technology base for use in future aviation programs, for example the Joint Multi-Purpose Helicopter or Joint Cargo Aircraft

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WSTIAC SOAR-02-01 ANTIJAM GPS (continued)

The SOAR assesses anti-jam technology as it relates to precision-guided munitions (PGM) facing potential threat jamming environments. The fundamental features of GPS navigation for PGM applications are described as well as the essential features of GPS signal reception, the potential jamming threat, and the main thrusts in characterize the electronic counter-countermeasures (ECCM) in current and future PGM systems.

Main near-term ECCM solution is adaptive antenna jam suppression

Methodology of SOAR is readily adaptable to more extensive ECM/ECCM analysis;

large multiple jammer arrays; future configurations of GPS; high power and more sophisticated jamming techniques

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